CIVIL PRO
AN ISO 9001 : 2008 COMPANY & ACCREDITED LABORATORY AS PER ISO/IEC 17025:2017
4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: Emergency works in ward No.08 Kodigehalli.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
6	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
7	PCC(M15)	Compressive Strength(7days and 28days)	2 set /1-5 cum	11.61	4	4
8	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1

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9	BC	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
10	BITUMEN	Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
11	TACK COAT	Rate of spread	One Test		1	1

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-07-12-23** **Date: 30-03-22**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP,
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Emergency works in ward No.08 Kodigehalli.
Agency	:	Sri.U Ramesh, No.12, 4th Cross, Surise Colony, Cholanayakanahalli, R T Nagar Post, Bengaluru-560032.
Customer's Reference	:	BBMP/EE BTP/WO/55/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-03-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6 IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6
Date of test	:	28-03-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.12	_
2	Finess by Air permeablity method (m^2/kg,Min)	278.5	225m^2/kg, Min
3	Density (gm/cc)	3.11	_
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	125 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Authorized Signatory
Quality Manager

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-07-12-23** **Date: 25-04-22**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Emergency works in ward No.08 Kodigehalli.
Agency	:	Sri.U Ramesh, No.12, 4th Cross, Surise Colony, Cholanayakanahalli, R T Nagar Post, Bengaluru-560032.
Customer's Reference	:	BBMP/EE BTP/WO/55/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-03-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6
Date of test	:	28-03-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	56.0N/mm^2	Not less than 53 N/mm^2

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Authorized Signatory
Quality Manager

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-07-12-23** **Date: 30-03-22**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Emergency works in ward No.08 Kodigehalli.
Agency	:	Sri.U Ramesh, No.12, 4th Cross, Surise Colony, Cholanayakanahalli, R T Nagar Post, Bengaluru-560032.
Customer's Reference	:	BBMP/EE BTP/WO/55/2021-22
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	26-03-22
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	26-03-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	748	748	5.0	95.0	90-100
3	20 mm	4427	5175	34.5	65.5	30-70
4	10 mm	5937	11112	74.1	25.9	10-35
5	4.75 mm	3152	14264	95.1	4.9	0-5
6	Pan	736	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-07-12-23** **Date: 30-03-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.65	_
4	Bulk Density(Loose) (Kg/l)	1.42	_
5	Bulk Density(Compacted) (Kg/l)	1.47	_
6	Water Absorption(%)	0.18	_

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****End of Report****

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2022-07-12-23** **Date: 30-03-22**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Emergency works in ward No.08 Kodigehalli.
Agency	:	Sri.U Ramesh, No.12, 4th Cross, Surise Colony, Cholanayakanahalli, R T Nagar Post, Bengaluru-560032.
Customer Reference	:	BBMP/EE BTP/WO/55/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-03-22
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2021 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	26-03-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	285	285	5.7	94.3	90-100
3	10 mm	3015	3300	66.0	34.0	25-55
4	4.75 mm	1588	4888	97.8	2.2	0-10
5	Pan	112	5000	100	0	_

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2022-07-12-23** **Date: 30-03-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.1	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	9.5	
3	Specific Gravity	2.63	_
4	Bulk Density(Loose) (Kg/l)	1.45	_
5	Bulk Density(Compacted) (Kg/l)	1.51	_
6	Water Absorption(%)	0.21	_
7	Aggregate crushing Value(%)	23.8	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	23.1	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-07-12-23** **Date: 30-03-22**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Emergency works in ward No.08 Kodigehalli.

Agency : Sri.U Ramesh, No.12, 4th Cross, Surise Colony, Cholanayakanahalli, R T Nagar Post, Bengaluru-560032.

Customer's Reference : BBMP/EE BTP/WO/55/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 26-03-22

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 26-03-22

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	36	36	3.6	96.4	90-100	90-100	90-100	95-100
3	2.36 mm	104	140	14.0	86.0	60-95	75-100	85-100	95-100
4	1.18 mm	226	366	36.6	63.4	30-70	55-90	75-100	90-100
5	600 micron	174	540	54.0	46.0	15-34	35-59	60-79	80-100
6	300 micron	214	754	75.4	24.6	5-20	8-30	12-40	15-50
7	150 micron	167	921	92.1	7.9	0-10	0-10	0-10	0-15
8	Pan	79	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2022-07-12-23** **Date: 30-03-22**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.27	_
2	Specific Gravity	2.53	_
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2022-07-12-23** **Date: 01-04-22**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Emergency works in ward No.08 Kodigehalli.
Agency	:	Sri.U Ramesh, No.12, 4th Cross, Surise Colony, Cholanayakanahalli, R T Nagar Post, Bengaluru-560032.
Customer's Reference	:	BBMP/EE BTP/WO/55/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-03-22
Sample Type /Size	:	Precast Cover Slab-100mm Thick
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	28/03/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.42	100.47	1.328	4467	83.7	18.7	17.4	21.8
2	Cover Slab-2	75.48	100.52	1.312	4474	82.4	18.4	17.1	21.4
3	Cover Slab-3	75.52	100.48	1.389	4478	83.9	18.7	17.4	21.8

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Quality Manager

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Format No: CP/TF/01

TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2022-07-12-23** **Date: 01-04-22**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Emergency works in ward No.08 Kodigehalli.
Agency	:	Sri.U Ramesh, No.12, 4th Cross, Surise Colony, Cholanayakanahalli, R T Nagar Post, Bengaluru-560032.
Customer's Reference	:	BBMP/EE BTP/WO/55/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	26-03-22
Sample Type /Size	:	Precast Cover Slab-250mm Thick
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete
Date of test	:	28/03/2022

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.51	100.48	3.877	31570	685.8	21.7	20.2	25.3
2	Cover Slab-2	200.52	100.52	3.754	31574	671.5	21.3	19.8	24.7
3	Cover Slab-3	200.49	100.51	3.498	31564	669.5	21.2	19.7	24.7

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Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-07-12-23** **Date: 22/04/2022**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Emergency works in ward No.08 Kodigehalli.

Agency : Sri.U Ramesh, No.12, 4th Cross, Surise Colony, Cholanayakanahalli, R T Nagar Post, Bengaluru-560032.

Customer's Reference : BBMP/EE BTP/WO/55/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-04-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/04/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	15/04/2022	22/04/2022	150.11 X 149.48 X 151.35	22438	8.175	271.5	12.1	12.4
2	PCC	M15	15/04/2022	22/04/2022	150.44 X 149.87 X 150.34	22546	8.163	290.8	12.9	
3	PCC	M15	15/04/2022	22/04/2022	150.66 X 150.49 X 149.54	22673	8.155	278.9	12.3	

* The results obtained are satisfactory as per standard requirements.

Note:

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-07-12-23** **Date: 13/05/2022**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Emergency works in ward No.08 Kodigehalli.

Agency : Sri.U Ramesh, No.12, 4th Cross, Surise Colony, Cholanayakanahalli, R T Nagar Post, Bengaluru-560032.

Customer's Reference : BBMP/EE BTP/WO/55/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-04-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 13/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	15/04/2022	13/05/2022	149.86 X 151.47 X 150.33	22699	8.175	392.7	17.3	17.3
2	PCC	M15	15/04/2022	13/05/2022	150.49 X 150.33 X 149.87	22623	8.162	386.9	17.1	
3	PCC	M15	15/04/2022	13/05/2022	150.28 X 150.77 X 150.98	22658	8.179	398.8	17.6	

* The results obtained are satisfactory as per standard requirements.

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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-07-12-23** **Date: 22/04/2022**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Emergency works in ward No.08 Kodigehalli.

Agency : Sri.U Ramesh, No.12, 4th Cross, Surise Colony, Cholanayakanahalli, R T Nagar Post, Bengaluru-560032.

Customer's Reference : BBMP/EE BTP/WO/55/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-04-22

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/04/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	15/04/2022	22/04/2022	150.32 X 150.25 X 150.12	22586	8.190	289.1	12.8	12.3
2	PCC	M15	15/04/2022	22/04/2022	150.32 X 150.14 X 150.85	22569	8.270	275.3	12.2	
3	PCC	M15	15/04/2022	22/04/2022	150.12 X 150.24 X 150.17	22554	8.196	270.6	12.0	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2022-07-12-23** **Date: 13/05/2022**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Emergency works in ward No.08 Kodigehalli.
Agency	:	Sri.U Ramesh, No.12, 4th Cross, Surise Colony, Cholanayakanahalli, R T Nagar Post, Bengaluru-560032.
Customer's Reference	:	BBMP/EE BTP/WO/55/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	17-04-22
Customer ID	:	PCC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/05/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	15/04/2022	13/05/2022	150.32 X 150.19 X 150.52	22577	8.235	388.3	17.2	17.4
2	PCC	M15	15/04/2022	13/05/2022	150.39 X 150.54 X 150.35	22640	8.188	398.5	17.6	
3	PCC	M15	15/04/2022	13/05/2022	150.43 X 150.45 X 150.73	22632	8.221	393.8	17.4	

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-RW-2022-07-12-23** **Date: 14-04-22**

Customer : Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.

Address : Kodigehalli Sub Division, BBMP, Bangalore.

Project Name : Emergency works in ward No.08 Kodigehalli.

Agency : Sri.U Ramesh, No.12, 4th Cross, Surise Colony, Cholanayakanahalli, R T Nagar Post, Bengaluru-560032.

Customer Reference : BBMP/EE BTP/WO/55/2021-22

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 12-04-22

Type of Mix : WMM (Wet Mix Macadam)

Date of Test : 12-04-22

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	309	309	2.8	97.2	95-100
22.4	2198	2507	22.8	77.2	60-80
11.2	2088	4595	41.8	58.2	40-60
4.75	2314	6909	62.8	37.2	25-40
2.36	1722	8631	78.5	21.5	15-30
0.6	618	9249	84.1	15.9	8-22
0.075	1367	10616	96.5	3.5	0-5

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2022-07-12-23**	**Date: 14-04-22**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.	
Project Name	:	Emergency works in ward No.08 Kodigehalli.	
Agency	:	Sri.U Ramesh, No.12, 4th Cross, Surise Colony, Cholanayakanahalli, R T Nagar Post, Bengaluru-560032.	
Customer Reference	:	BBMP/EE BTP/WO/55/2021-22	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	12-04-22	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of Test	:	12-04-22	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	301.2	301.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	69.5	67.1
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	231.4	233.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.3	0.3
5	Aggregate impact value	(B/A)*100	23.1	22.3
6	Aggregate impact value (Mean of two tests)	Pecentage	22.7	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2022-07-12-23** **Date: 14-04-22**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Emergency works in ward No.08 Kodigehalli.
Agency	:	Sri.U Ramesh, No.12, 4th Cross, Surise Colony, Cholanayakanahalli, R T Nagar Post, Bengaluru-560032.
Customer Reference	:	BBMP/EE BTP/WO/55/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	12-04-22
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	12-04-22

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	11.4%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	11.1%	
Combined Flakiness and Elongation Index for WMM	22.5%	

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2022-07-12-23**	**Date: 17-04-22**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.	
Project Name	:	Emergency works in ward No.08 Kodigehalli.	
Agency	:	Sri.U Ramesh, No.12, 4th Cross, Surise Colony, Cholanayakanahalli, R T Nagar Post, Bengaluru-560032.	
Customer Reference	:	BBMP/EE BTP/WO/55/2021-22	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	15-04-22	
Type of Mix	:	BC-Plant (Bituminous Concrete)	
Date of Test	:	15-04-22	
Oven Dry Weight	:	5000 Grams	

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	55	55	1.1	98.9	90-100
9.5	659	714	14.3	85.7	70-88
4.75	881	1595	31.9	68.1	53-71
2.36	848	2443	48.9	51.1	42-58
1.18	462	2905	58.1	41.9	34-48
0.6	588	3493	69.9	30.1	26-38
0.3	412	3905	78.1	21.9	18-28
0.15	188	4093	81.9	18.1	12-20
0.075	526	4619	92.4	7.6	4-10
PAN	381	5000	100	0.0	0

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2022-07-12-23** **Date: 18-04-22**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Emergency works in ward No.08 Kodigehalli.
Agency	:	Sri.U Ramesh, No.12, 4th Cross, Surise Colony, Cholanayakanahalli, R T Nagar Post, Bengaluru-560032.
Customer Reference	:	BBMP/EE BTP/WO/55/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	15-04-22
Type of Mix	:	BC(Bitumenous Concrete)
Date of Test	:	15-04-22

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	99.0	1.0	98.7	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.5	1.5		

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2022-07-12-23**	**Date: 18-04-22**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.	
Project Name	:	Emergency works in ward No.08 Kodigehalli.	
Agency	:	Sri.U Ramesh, No.12, 4th Cross, Surise Colony, Cholanayakanahalli, R T Nagar Post, Bengaluru-560032.	
Customer Reference	:	BBMP/EE BTP/WO/55/2021-22	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	15-04-22	
Type of Mix	:	BC (Bituminous Concrete)	
Date of Test	:	15-04-22	

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	10.4	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.9		
Strength	Aggregate Impact Value	21.9	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.59	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.22	Maximum 2%	IS:2386 Part III

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2022-07-12-23** **Date: 18-04-22**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Emergency works in ward No.08 Kodigehalli.
Agency	:	Sri.U Ramesh, No.12, 4th Cross, Surise Colony, Cholanayakanahalli, R T Nagar Post, Bengaluru-560032.
Customer Reference	:	BBMP/EE BTP/WO/55/2021-22
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	15-04-22
Type of Mix	:	BC (Bituminous Concrete)
Date of Test	:	15-04-22

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	12.38	12.25	10KN(min)
2	Marshal flow at 60°C, mm	3.77	3.49	2-4
3	Percent air Voids	4.72	4.62	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.99	14.78	13-15
5	Percent Voids filled with Bitumen(VFB %)	73.65	73.58	65-75
6	Density, g/cc	2.25	2.26	–

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	**CP-RW-2022-07-12-23**	**Date: 20-04-22**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.	
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.	
Project Name	:	Emergency works in ward No.08 Kodigehalli.	
Agency	:	Sri.U Ramesh, No.12, 4th Cross, Surise Colony, Cholanayakanahalli, R T Nagar Post, Bengaluru-560032.	
Customer Reference	:	BBMP/EE BTP/WO/55/2021-22	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	19-04-22	
Type of Mix	:	BC (Bituminous Concrete)	
Date of Test	:	19-04-22	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	471	470
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.80	6.00
4	Average percentage	%	5.9	

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Lab ID : **CP-RW-2022-07-12-23** **Date: 20-04-22**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 471

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	25	25	5.3	94.7	90-100
9.5	83	108	22.9	77.1	70-88
4.75	96	204	43.3	56.7	53-71
2.36	52	256	54.4	45.6	42-58
1.18	39	295	62.6	37.4	34-48
0.6	31	326	69.2	30.8	26-38
0.3	45	371	78.8	21.2	18-28
0.15	35	406	86.2	13.8	12-20
0.075	31	437	92.8	7.2	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 470

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	15	15	3.2	96.8	90-100
9.5	65	80	17.0	83.0	70-88
4.75	125	205	43.6	56.4	53-71
2.36	58	263	56.0	44.0	42-58
1.18	26	289	61.5	38.5	34-48
0.6	13	302	64.3	35.7	26-38
0.3	52	354	75.3	24.7	18-28
0.15	35	389	82.8	17.2	12-20
0.075	55	444	94.5	5.5	4-10

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TEST REPORT ON BITUMEN

Lab ID	:	**CP-RW-2022-07-12-23** **Date: 14-04-22**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP,
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Emergency works in ward No.08 Kodigehalli.
Agency	:	Sri.U Ramesh, No.12, 4th Cross, Surise Colony, Cholanayakanahalli, R T Nagar Post, Bengaluru-560032.
Customer's Reference	:	BBMP/EE BTP/WO/55/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-04-22
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-2021, IS: 1202-1220(1978) (Reaffirmed-2019)
Date of Test	:	13-04-22

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	**63**	60 to 70
2	Softening Point, °C	**52**	Min. 40°C
3	Ductility, cm	**97**	Min. 75cm
4	Flash point, °C	**244**	Min. 220°C
	Fire point, °C	**278**	

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Samples will be disposed after 30 days from the date of issue of test certificate

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID	:	**CP-RW-2022-07-12-23** **Date: 20-04-22**
Customer	:	Assistant Executive Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Address	:	Kodigehalli Sub Division, BBMP, Bangalore.
Project Name	:	Emergency works in ward No.08 Kodigehalli.
Agency	:	Sri.U Ramesh, No.12, 4th Cross, Surise Colony, Cholanayakanahalli, R T Nagar Post, Bengaluru-560032.
Customer Reference	:	BBMP/EE BTP/WO/55/2021-22
Sample Condition	:	Satisfactory
Date of Receipt	:	19-04-22
Type of Mix	:	Tack coat
Date of Test	:	19-04-22

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.781	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.805	0.772
5	Weight of tack Coat (d=c-b)	Kg	0.024	0.024
6	Rate of spread of tack coat	Kg/sq.m	0.267	0.267
7	Average	Kg/sq.m	0.267	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested.
All information Furnished by Customer/ Representative
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Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

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